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TITLE : SURFACE-COATING AGENT FOR PAPER

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject agent capable of effectively preventing a feathering phenomenon by radically polymerizing a water-soluble (meth)acrylic monomer in the coexistence of a water-soluble or dispersible polymer containing glucose units.

SOLUTION: This surface-coating agent for paper is obtained e.g. by charging a monomer and a 23% aqueous solution containing steamed starch oxide in a prescribed amount into a four-neck flask equipped with a thermometer, a stirrer, an N₂-changing tube and a condenser, controlling the pH of the solution to 3.5, adding ion-exchanged water to the solution so as to give a monomer concentration of 20%, stirring the raw material mixture, maintaining the temperature at 60°C, replacing with N₂ for 30min, adding ammonium peroxydisulfate and disodium sulphite in amounts of 0.3% and 0.01%, respectively, based on the monomer to initiate the polymerization, continuing the reaction for 4hr at 60°C, cooling, and subsequently diluting so that the total amount of actions, polyvinyl alcohol and the monomer is 30%.

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